# The Mining Journal.

No. 432.]

## ENLARGED SHEET.

DEC. 2.

O ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, IRONMANTERS, and OTHERS REQUIRING PINE GREASE MACHINERY and AXLES of every description—JOREPH FERCIVAL'S IN-

REATIONARY, MARINE, and LOCOMOTIVE STRAM-BOILERS, and R and BALT FACIORISM, RARWERIES, DISTILLERIES, Ap.—Baron STREET has the bosoner to offer to properlying of stram bullers, edge-citing to

GUS LIFE ASSURANCE COMPANY
By THROGMORTON. STREET, BANK.

Impowered by special Act of Parliament, 5 & 6 Wilson IV., cap. 76.

THOMAN PARSCOMM. Roy., Aldreman., Castronia.

BULLIAN LEAF, Roy., Deputy-Chairman.

Convergence Activaty—Professor Had, M.A., of King's Cullege.

LOW RATES OF PREMIUMS.

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William Walker, Eng.
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-GRORDS PORNER, Big. V. Park opening, Regner's park

TMPORTANT RAILWAY IMPROVEMENT.—As the con-

TO BE SOLD, the VALUABLE PATENT for BELGIUM and HOLLAND, for PRESERVING TIMBER ON OTHER VEGETARIS BESTANCES, SECOND TO NP. CURREN PAYER PROCESS for ENGLAND, which WOOD is residented IMPERIVOUE to FIRE and BECAY, by the introduce, and was at once inscribe, and which, for SHIP and HOUSE SUILLISM, FIRES, CAR, BELDGER, WOOD PAVERIENTS, RAILWAYS, for, or whetever wood need, in invaluables.

a utuared conseive come barring been becknowed agone the exemplacture of the on, or on the pressure the Replace Society, they make the manifelency exemperator the Australian and County 1979.

L ONDON FRIENDLY UNION NATIONAL INSTITUTION

MINING IN THE MIDLAND COUNTIES OF ENGLAND-No. 1. some report of the Midland Mining Commission, on the physics of the mining population of front's Staffordshire Worsester. sical condition of the mining population of flowt bufferenesses Warwick, and fishep, by Thomas Toncred, Eq., who was commissioned by Government his make a special inquiry into the condition of persons amplinged in mines in those eventions, has just been published, having previously been laid before both House of Parliament. Though contined to South Staffactation—and, consequently, of a local character—this report contains so condition of the population in these districts, and which may give a moral condition of the population in these districts, and which may give a very general idea of the habits of the minera in the other such districts of Great Britain, that we shall, in an extended series of payers, by the whole, in an condensed a shape as its interest and importance will admit, before our condenses.

See Anderson of the control of the c

by the stime, a certain measure of work about two yards thick, 2 ft. 3 in. hoph, and there foot wide; these, if work is plentiful, and the coal moderately self, a skilled some one get through his stime in eight or mise house, and leave him the rest of the doy to himself, and although the position of the hody is offstriliness wordined, and the labour hard, the employment of the ploy is offstriliness wordined, and the labour hard, the employment of the plates in the best under offstray electromaticum, shift is the eligate of ambition of the young and signome miner. Neaths the planesses on the hotofanous, whin one paid by the day of stockes house; the lineages out the hotofanous, whice one good has managenite givens, which the finedests place to a the skips, and assurant with Iran langus, which the finedests place to a the skips, and assurant with Iran langus, which the distributions that here the represent of over having employed females under ground. The author whited the Heast Calliney, in employed females under ground. The outloor whited the Heast Calliney, in employed females under ground. The outloor whited the Heast Calliney, in employed females under ground. The outloor without the more real sandward, and this attempt having have sense and Mr. M'Doff, the "doggy;" the first fact the ten, yet of outly staking through the new real sandward, and this attempt having have sense by staking through the new real sandward, and this attempt having have sense. A stake of the sandward accidents. The pileonen universally prefer holing as the content work, though they have to sit in a pince only 2 ft. 3 in. or 4 in. high, where they emmed straighten the next, for in because a most of coal some twenty-neight four thick; this and the other works cause great development of the work, downton a propagent to make a single day stone, and the sandward accidents. The pileonen universally prefer holing as the content work, though they have to sit in a pince only 2 ft. 3 in. or of it. high, where they considered according to a sin

parameters of count parties, and approach consequences even. State falls are not be formed in the country to be increased even. State and to find the country of the parties of the parties of the parties of the country of the parties. The parties of the desired of the country of the parties of the parties of the country of the parties of the parties

by several components and by undoubted to proceed the process tends over fifty-two pages, is ship written, and is worthy the persan persons connected with the end trade; it contains the most imparts of the oridence of Mr. Brandling, Mr. Henry Mantan, Mr. Tagies, soil Mr. Boddie, on the charges used equinat the condent the most of the most is a summary of the most of the most in the process of the most is a summary of indicated data as unables of most winnings, progressive increase in the procession or number of most winnings, progressive increase in the procession of most indicated a complete firm they are navigated, some of particulars we shall embody in a future action.

ON THE IMAGINED PROBABLE ESTABLISHMENT OF A TRADE IN AMERICAN COAL WITH EUROPE.

A letter by the Hon. C. I. Ingersoll having recently been published in America, in which he discusses the facilities and capabilities which exist for supplying the whole of Europe with anthracite from the coal district of Fennsylvania, Mr. R. C. Taylov, of Philodelphia, has coffeeted some exinable data, by which he shows that it will be impossible to establish a profitable trade in coals between the United States and Europe. He takes profitable trade in coals between the United States and Europe. He takes the most preminent paragraphs, each separately, as a text, commenting as a prements, and introducing statistical uniter as an assert to the writer's assumptions. Mr. Impressi says—"They have so end in France, except some small quantities impacted from Belgium, and that hiteuminum, which the Franch do not like. There are end beds in parts of France, during the English, text they want face." To this it is replied, that there are firely-sis distinct coal basins in France, of which two alone employed 32,000 workmen in 1835. In the distincts of this annually increasing at an ensurance rate, having quadrupled in twenty years. In France, the proportion of ensurance rate, having quadrupled in twenty years. In France, the proportion of ensurance rate, having quadrupled in twenty years. In France, the proportion of ensurance rate, having quadrupled in twenty years. In France, the proportion of ensurance and in England one tan to each person; that there are 3000 manufacturing antalitabilisments in Prance dependent on its coult, which also furnishes complexyment in the produced flow coal indeed, which also furnishes complexyment in the produced flow coal indeed, which also furnishes complexyment in the produced flow coal indeed, which also furnishes complexyment in the produced flow coal indeed into more attacks of the coal indeed of the more attacks and increased the produce of here coal indeed from 125,000 flows to 3,225,000 tones, with alternative coal connect to introduced into more attacks and in another are also as a substitute of the coal flows in the face of these faces, on the said—" France bear on one of "—" It is not worth, at load, a change of the produce of here one of the face of the said of the produce of here were forther to the said of the produce of here are the said of the produce of the said of the produce of the said of the the most prominent paragraphs, each separately, as a text, community he proceeds, and introducing statistical matter as an answer to the writ assumptions. Mr. Ingersoft says-" They have so coul in Pronce, except The

GEOLOGICAL CHARACTER OF THE SOUTH-EASTERN BOUNDARY OF THE SOUTH WALES COAL-FIELD.

trained from the Wining Journal of Oct. 18.—Perce the Research from here dign week, commencing with a full of a first the distince of about a mile a head, it has leasened to tw in a yard, which brings in into the main trough, or a, where the measures rise worth and south. The concret it is taken in by New Society Inc., Pentsymment, near Wester triver Russney, by Pensilla Rock, to within 200 years deep pit, thence acress the river Tall, near the Navigs up Yayayiwal, in Lansmann, in the Vale of Rhondila, whiphon called Gyfaillion. This comprises the extent of district I shall commence at Sichowy with the transverse motion and mine measures bused out to the north; from here to a distill pit, mor Hinckwood, the strate dip about three is a distance of ten direct than to contribute out the contribute. And Oct. 18 .- Pe Gellygaer or chrough Yayaybus, called Gyfa Is shall commerce at Sirkewy was north; from the mount of shall commerce based out in the morth; from the mine measures based out in the morth; from the single pit, more Blackwood, the strate dip about three inches in distance of ten miles; then the nouth rise commerces at the rule of inches per yard, for the distance of three miles, to a place called Y. Visch, where the strate form what geologists demonstrate the anticlical and what aminors technically term a saddle back; thereoe the strate take is nouthwardly for two miles further, when they arrive in the holiow of smalless and report where the tryingh, already mentioned, below Quarranewr, whose the tryingh, already mentioned, below Quarranewr, whose the tryingh three quarters of a mile, at the rule of from they take an abropt and rapid visiting the state of th recover rise south for about three-quarters of a mile, at the rule of from to four inches per yard, and then they take an about and rapid rise more than a mile and a half, and benetting on the hill above Rises at a of eighteen inches per yard. I have taken the Sishowy Valley to illuste the transverse section, because the localities may be more familiar to; but I will not loss this opportunity of informing you that from the winns of the Rhondda brunch of the Taff Vale Railway to the Nandgaw and is one of the finest treats in this country for a geologist, the railway rations having demaded and exposed the edges of the various strets, an exhibit the transverse undulations of the basin, with the anticlinal at Foutypridd, and the centre of the basin at Gyfeillon, together with sizefinal axis of the lesser trough, at Rhyd Erg. These facts out be cained in other valleys, but not so easily as in the Taff and Rhondda great obstacles to mining operations are certain phenomena which I describe under the different hards of funits, dykes, erumps, rolls, and ps. A fault is a dislocation of the strats, deranging the positions of various vains contained therein, caused, according to the Huttonism and greedogy, by the expansion of subternamen fore. Dr. Hutton's ry is this, and easily explained, I believe:—"Within the reachess of earth those crists a fire," called by him: "countral fire," which is at a "quiescent or active (as the case may ha), bet. missesent or active (as the case may be); but, when the various rents distributed over the globe become too isadequate to allow the propose to escape. Nature, desirous of disengaging bereelf, rends men devoted spot into a thousand piscen, which, after the orbail hack by their own gravity; but the dislocated poetions, getting tagether, soldons regain their original position. An instance me in Calabria, after the last carthynake there; indeed, in Waisery, on the Tyne, there is a vertical dyke through the strain filled, which must have been injected in a funcional being a vitrously, the and abotting on it is now to be seen on each side, school; it is which advertise on it is now to be seen on each side, actually and unverted into coke for some feet; off. The foregoing is my of the couns of faults; new for the effects in this district. At it, above Hierarch, is a fault of great megnitude, the deraugement take some them. Some eminent packagints have supposed that faults of the northern rise to the tier course across the centre and the southern rise of the basis. Of this opinion I should wish to their minds; for from what I know of the district under souther periodarly the south vise, dexamined, both over and continuity, as I shall pre-ing Pfaldguisch, and north tion towards Penailla rock, re of the north become soon spent in the Ken-larger case. To return to the Brya-now only thirty-fire yards, or thorn-te majorard, and close to the major of it are to be soon at for B. Half's a few fetherms, whereas a few moon up to the heast of the hill or three smaller once, which been the collection, or both in larger once. To return a main final, which is now only thirty-live yes means its original course maintain, and classical collection of it are to be seen at five fatheres, where date of the former. It is one epitheres; of the letter, a descriptory; and severe the former to be indeed, a descriptory; and the same is assetly generalized, the constitution of the letter of the l

# ON THE MACHINES FOR RAISING AND LOWERING MINERS, AND ON THE USE OF THE IRON WIRE ROPE, IN THE MINING DISTRICT OF THE HARTE,

things come under my notice de trict of the Hartz, which may be in chain Society, I will endeavour to spakes of by all the principal selicors of the mines in terms of great commendation. I heard of no adverse circumstances that had accurred in using them, and I nodoratood that they were now applied in every situation that afforded facilities for erecting them. I saw one in action, which I need not describe, on you have a prefect account of the construction, in the reports of the society, but it appeared to not to be inferior to what has been executed at Treasream, the brockets or pixthems on which the men stand were small, and the few loops for bobling by were not, in my optimior, very conveniently arranged. The struke of the reads, also, was much shorter than that proposed to be adopted in Loam's machine; still the arrangement seemed to be perfectly effective, and the case with which the men assumed to step from one rod to the other, and were thus carried up or down, was very pleasing to witness, and had rather a striking effect in its appearance. In one of these mentions, which is corried to a great depth, it has been attempted to strengthen the timber rode, or to give them additional security by attenting to them a wire-eye. I disable much whether this be a good way of secomplishing this purpose, and I had much convecention with the rod, being in a state of rest and exposed to the wet and to the heated air of the mines, cone catilans, and may thus become considerably weakened, in a manner that may easily except observation, and thus a delivative appearance of strength may be relied again. As the wire report which are in minestal no new in the Basta Mines, for drawing up the over and weate, are not analyse; the anisher application of them was not foressess, and the difference must, I conceive, he assessmend for by the first state in the one case, and the constant motion in the other. I suggested to Mr. Jordan that the notication might, prefeation of them was not foressess, and the difference must, I conceive, he assessmend for by the farm state in the one case, and the constant motion in the other. I suggeste s, by premi

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### THE PRECIOUS METALS OF MEXICO.

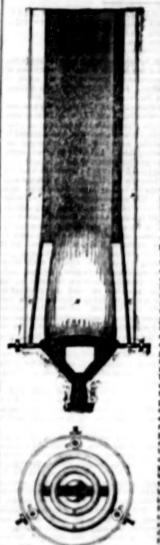
Although the Mexicans have great skill in the method à porio, they tain of Men

ity with the prom four-united, " A for-four-unit of the 28th aft., of many others, we now give a general description to meet the wishes of many others, we now give a general description he putery angles of J. T. and B. Besie, of East Granwich, with their set heliler. When a paper, destine of this angles, which has counsed considerable interest to the solic world, was read before the Society of Arts by Mr. Whichew, in June we held before our readers some account of its principles and powers, without any outs; the following will, we trust, rouder the matter rand into Rigibio to those of our readers who keep not had an opporty of examining the angles. The annexed engraving represents a ver-



theal species of the engine; a a is a cylinder, forming the case or loady, 14 institute distance or, and 6½ inchire ineng; within this cylinder, but not concentrate wit in it, in a notifieme, b, revoluting on an axis, in such measure that, which the appear gest is nearly clear to the outer case, there is a space demonstrate on each side of the circumstrateme, increasing in width to the intimus, where it is full one-righth of the diameter, as even at c. In this solid cylinder are four apertures for receiving the lower reliefes, d, r, a, s, and of the colines in diameter, and is justice long; a in the industries, and a the relief water is diameter, a continue to the collection, and a the relief water, in the industries, d, quarking in the stoom hay, i, d is the pipe for supplying stams from the hotler, and is the conditions pipe, which may be reversed instantly by the heading, and is no collect by which the atoms compare, either to the atoms the hotler, and is no collect by which the atoms compare, or the the conditions, and isopinging on the relief, c, control the tolic the nominant of the account, and is principle on the relief, c, control the collection pipe at a, when the steam before the relief, a, a successful pass the industries pipe, keeping up a rapid and powerful cotary machine, which, from the occanities possible from the rate of the engine. The first endings is the passible of the control of the control of the collection pipe, its control of the collection of the collecti as houry succeivers to errors, the elected interestible counter of 20,00 delices per extents been been attained, and it is confidently statut to

Battery to Covernance. The great case of "Ranger o the Great Windows Street Street on the Street Street on the Street Street Street on the Street Str



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And, ch, what for intense was his!
And, ch, what sactoon was his she
flow fee his exceptibility.
To things of earth, or sea, or sir!
Whilst others sent'd on wings of has
flows diving was his hidden flight,
Smooth the busine and broken longs
Of these win gave the miner light.
It'd read the beaten of other beater

Of these wise gave the polest light. If read the backs of other bards, Fell what a kindred soul can fuel there to immessify his wise. On consects or risk space to wheel, femalifrings of science, too, he had, And could be times of makin tail; And many attributes of man distributes of science of the know-aims! he know too well.

And off he'd means a messely— Time and efercity his themes— The past, the present, and to com And Gan, who restons in his dr

Mining traditions, ton, he had, Yold by the fathers of the dend, Amost the uses who otycen'd for the Ere "brites" went off above the head; Franceor, Nuc. 5.

MINING LYRICS-No. IIL

He was not starv'd, as posts are. Who sing away their ide days For, knew, he was a scribe by to ity night be song his mining is

Yet more he felt the proud man's a Then e'en the bigfut of low coins When Mining Journals' wing's his se He down'd highest among the pre-

That hid to shand event the hair!

And his weedl dig in fancy's miss,
And police years long transper'd ther.
And bring his jes who to the light,
The beam o brightness on dequair.
And, ch: what bounds his spirit mode,
From mething to the careas of all—
Till needla misses around him country.
And mellissi dots space the bail!

ASPRES T. J. MARTIN.

Moning president, con, the heat,
Totol by the fathers of the dend,
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